**Supplement 1 Consensus definitions for pediatric sepsis and septic shock**

**Sepsis:** Proven or suspected infection with two or more of the following (at least one must be a temperature or leukocyte abnormality):

1. Core temperature of >38.5°C or <36°C
2. Abnormal heart rate:
   - More than 2 SD above age-specific mean (not attributable to external stimuli, medication, or pain)
   - OR
   - Less than 10th percentile for age (children younger than 1 year, not attributable to external stimuli or medication)
3. Abnormal respiratory rate:
   - More than 2 SD above age-specific normal
   - OR
   - Acute need for mechanical ventilation
4. Abnormal leukocyte count:
   - Elevated or depressed below age-specific normal (not attributable to chemotherapy)
   - AND/OR
   - More than 10% immature neutrophils

**Septic shock:** Sepsis with cardiovascular dysfunction (despite 40 mL/kg isotonic intravenous fluid given in 1 hour), as evinced by:

1. Blood pressure < 5th percentile for age OR
2. Need for vasoactive infusion to maintain age-appropriate blood pressure
   - OR
3. At least two of the following:
   - a. Base deficit of 5.0 mEq/L or more, not otherwise explained
   - b. Arterial lactate twice the upper limit of normal
   - c. Urine output < 0.5 mL/kg/h
   - d. Capillary refill > 5 seconds
   - e. Core-to-peripheral temperature gradient > 3°C

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**Age** | **Abnormal value**
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| Tachycardia (beats/min) | Bradycardia (beats/min) | Respiratory rate (breaths/min) | Leukocyte count (× 10^7/mm) | Systolic blood pressure (mm Hg) |
---|---|---|---|---|---|
Less than 1 wk | > 180 | < 100 | > 50 | > 34 | < 65 |
1 wk–1 mo | > 180 | < 90 | > 40 | > 19.5 or < 5 | < 75 |
1 mo–1 y | > 180 | < 90 | > 34 | > 17.5 or < 5 | < 100 |
2–5 y | > 140 | N/A | > 22 | > 15.5 or < 6 | < 94 |
6–12 y | > 130 | N/A | > 18 | > 13.5 or < 4.5 | < 105 |
13–18 y | > 110 | N/A | > 14 | > 11 or < 4.5 | < 117 |

Abbreviations: N/A, not available; SD, standard deviation.

_Note:_ Lower values for heart rate, leukocyte count, and systolic blood pressure are 5th percentile for age. Upper values for heart rate, respiratory rate, and leukocyte count are 95th percentile for age.